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Docket No.: 10165-022-999

Serial No.: 10/612,665

Inventor(s): Nielsen et al.

Title: Recombinant tissue protective cytokines and
encoding nucleic acids thereof for protection, restoration,
and enhancement of responsive cells, tissues, and organs



FIG. 4

Docket No.: 10165-022-999

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Inventor(s): Nielsen et al.

Title: Recombinant tissue protective cytokines and
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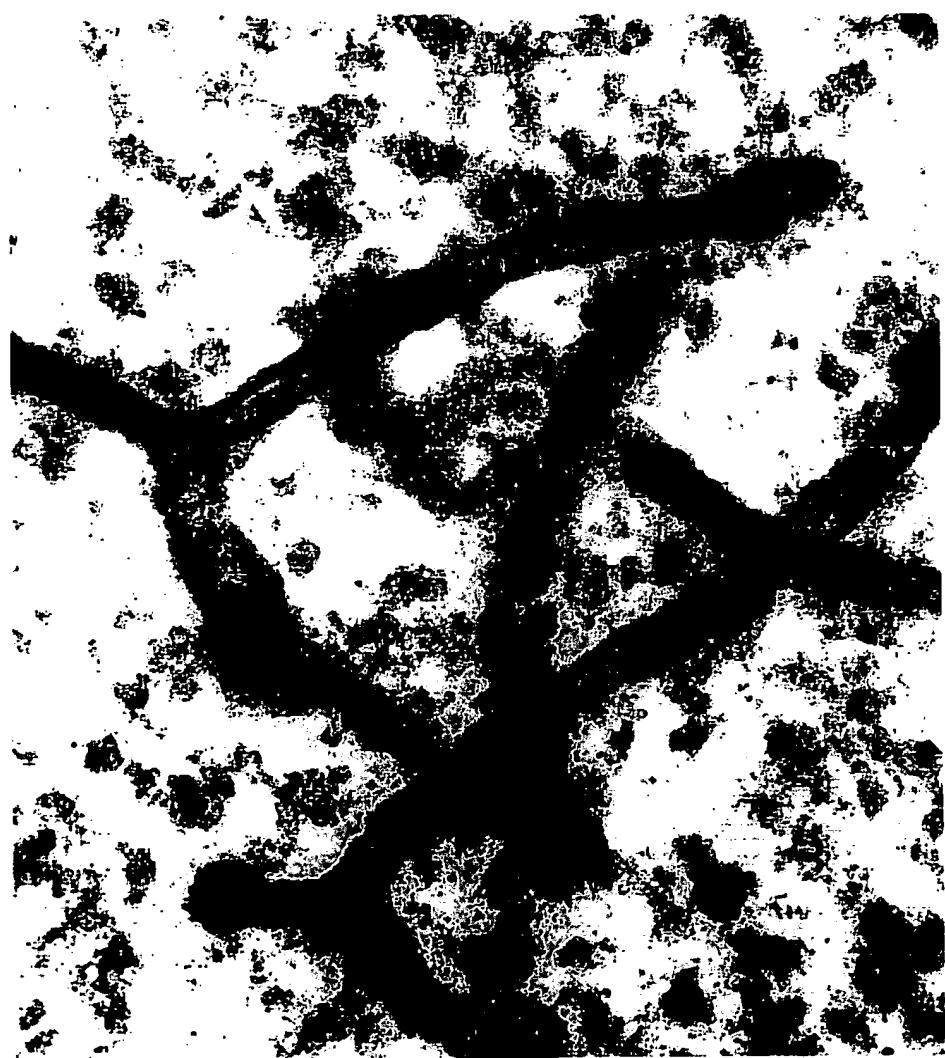


FIG.2

Docket No.: 10165-022-999

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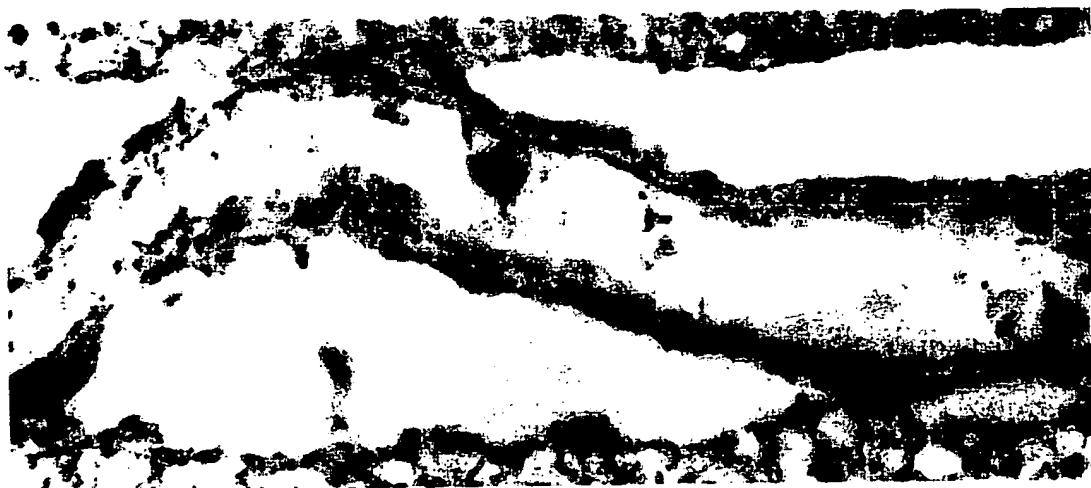


FIG.3

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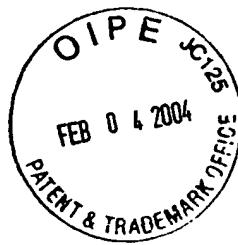


FIG.1

Title: Recombinant tissue protective cytokines and
encoding nucleic acids thereof for protection, restoration,
and enhancement of responsive cells, tissues, and organs

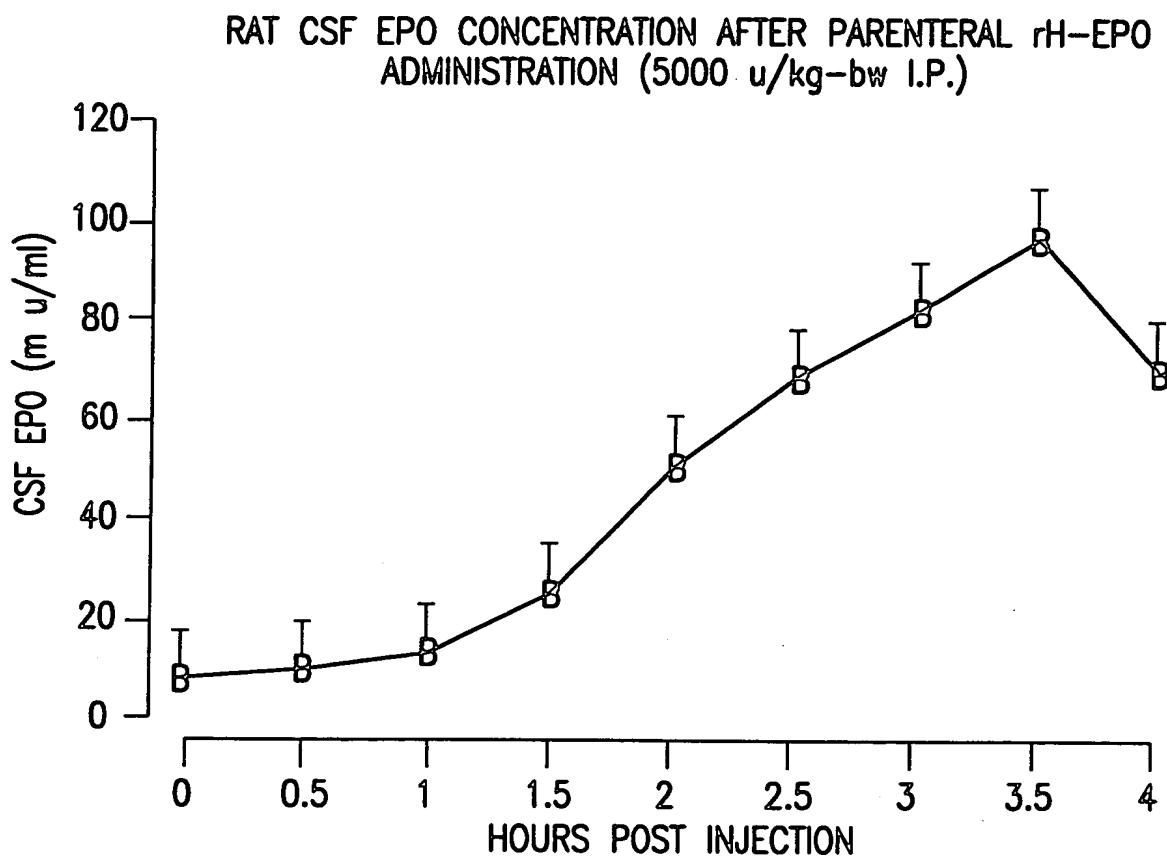


FIG. 5

Title: Recombinant tissue protective cytokines and
encoding nucleic acids thereof for protection, restoration,
and enhancement of responsive cells, tissues, and organs

SK-N-SH NEUROBLASTOMA CELLS
NEUROPROTECTION ASSAY (AGAINST ROTENONE)

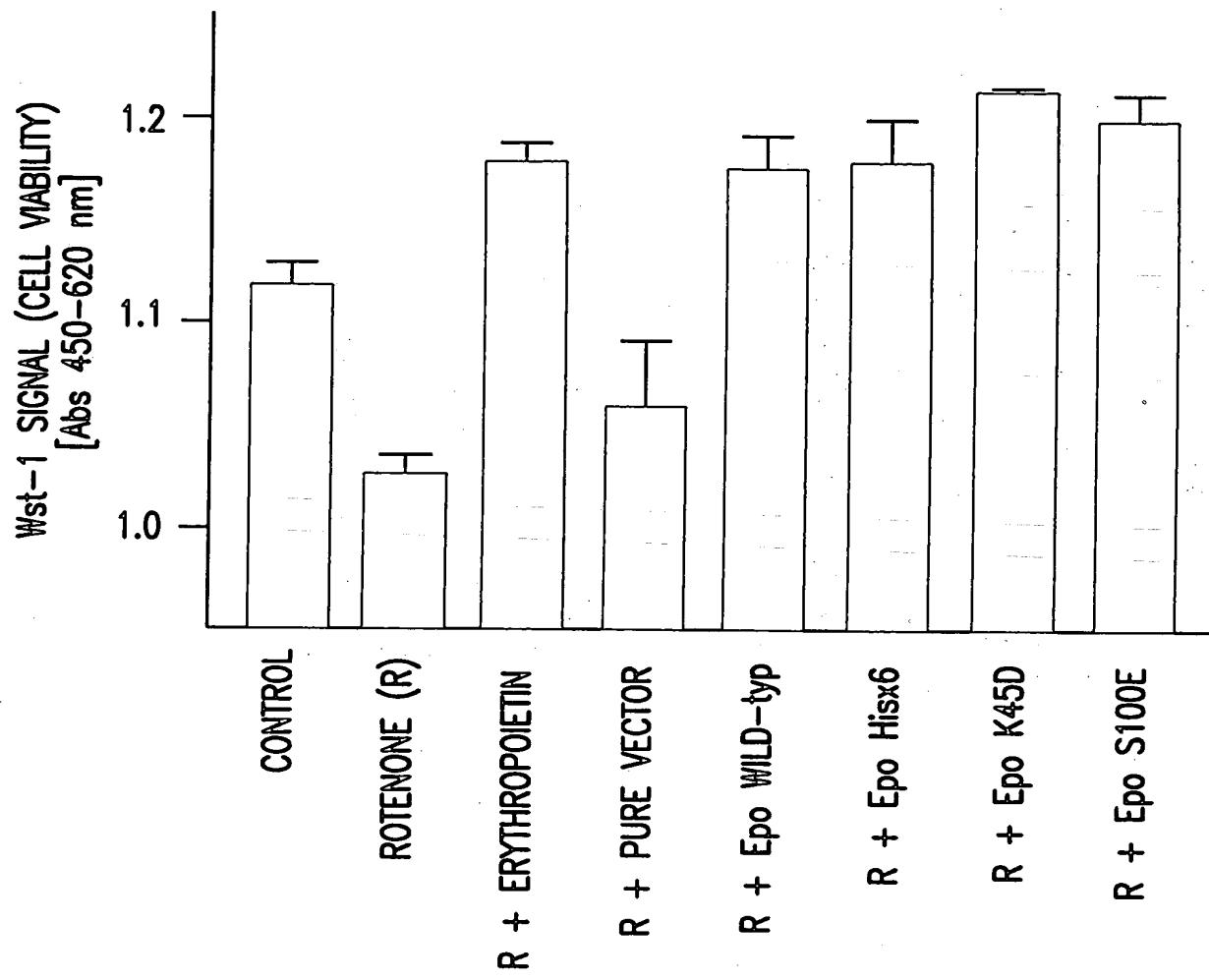


FIG. 6A

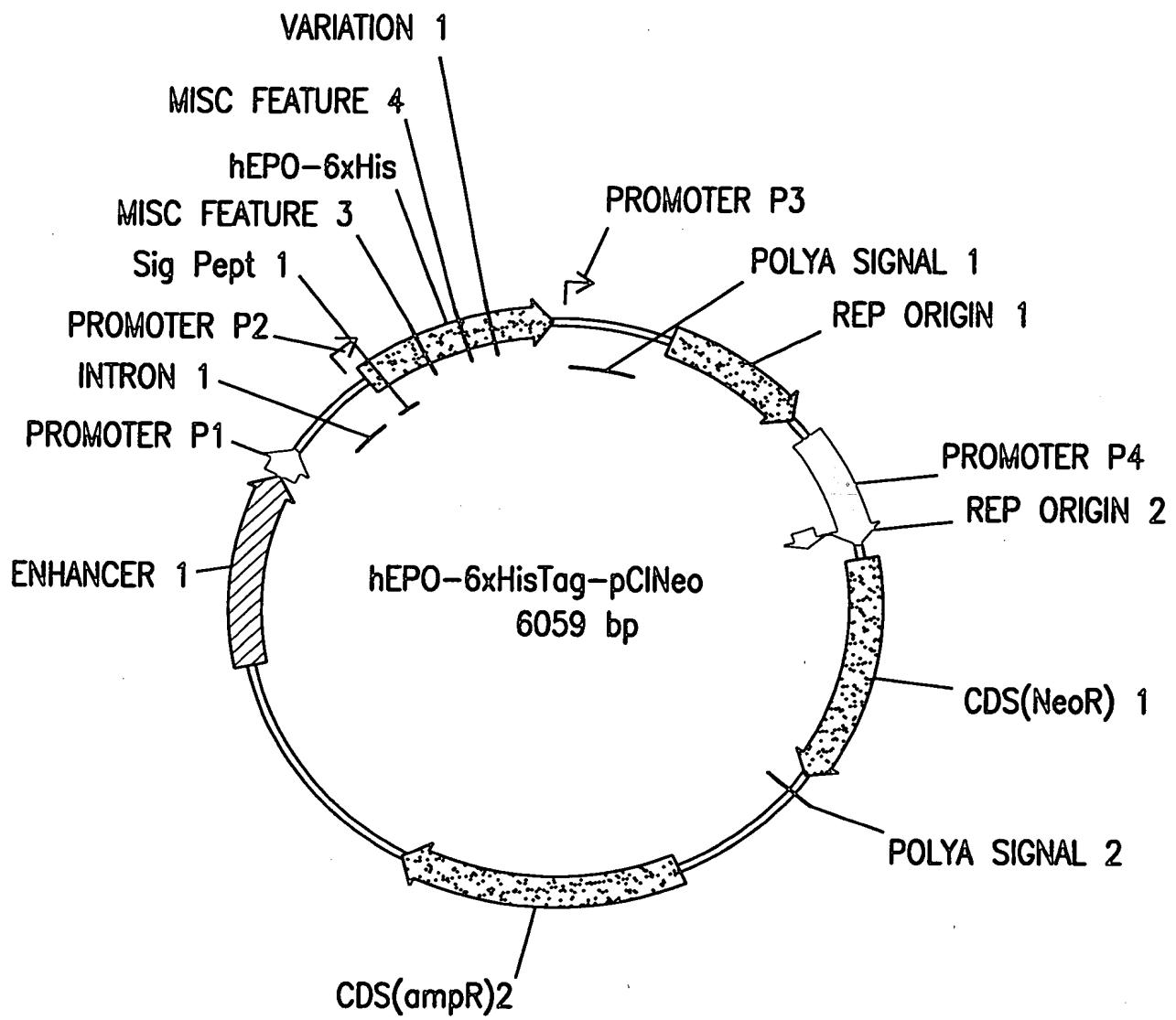


FIG. 6B

Title: Recombinant tissue protective cytokines and
encoding nucleic acids thereof for protection, restoration,
and enhancement of responsive cells, tissues, and organs

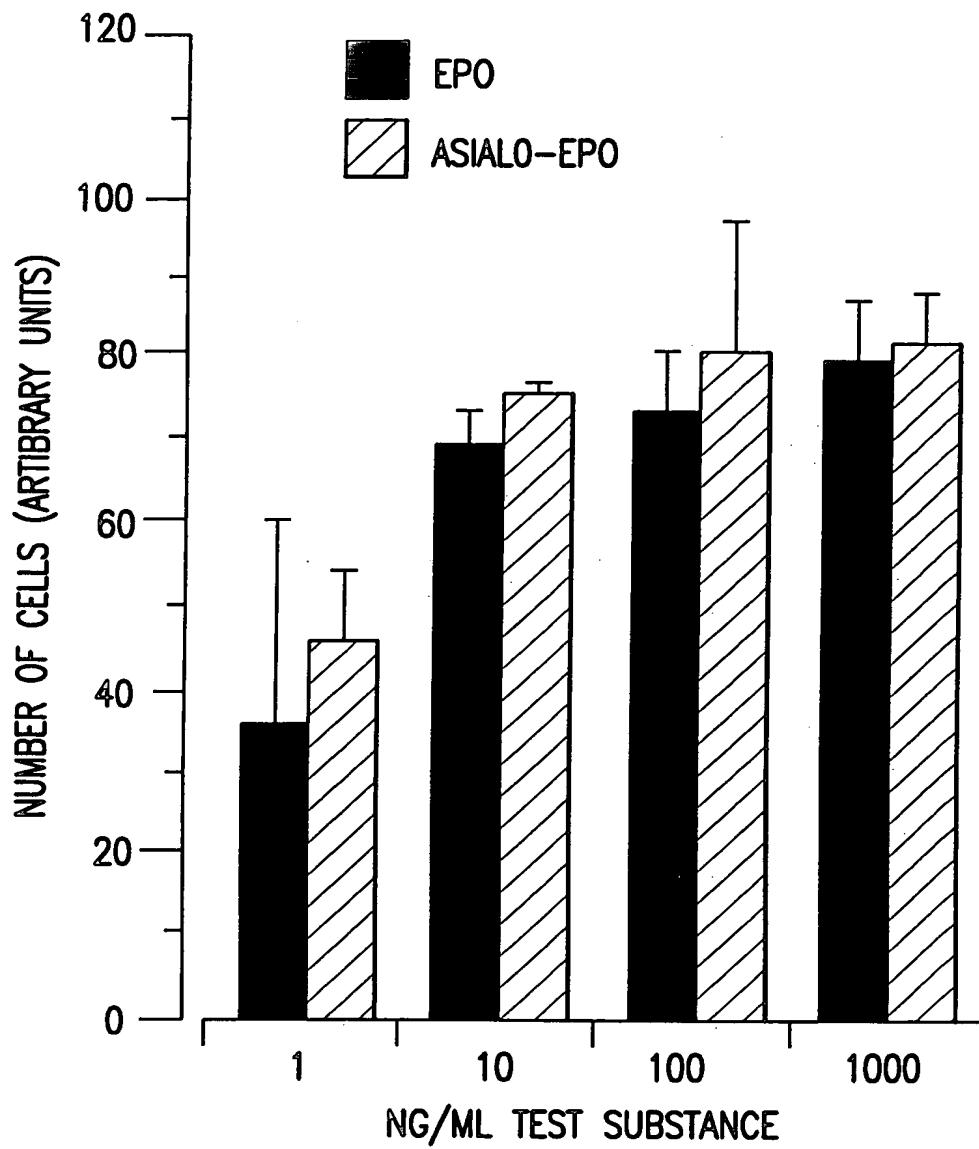


FIG. 7

Title: Recombinant tissue protective cytokines and
encoding nucleic acids thereof for protection, restoration,
and enhancement of responsive cells, tissues, and organs

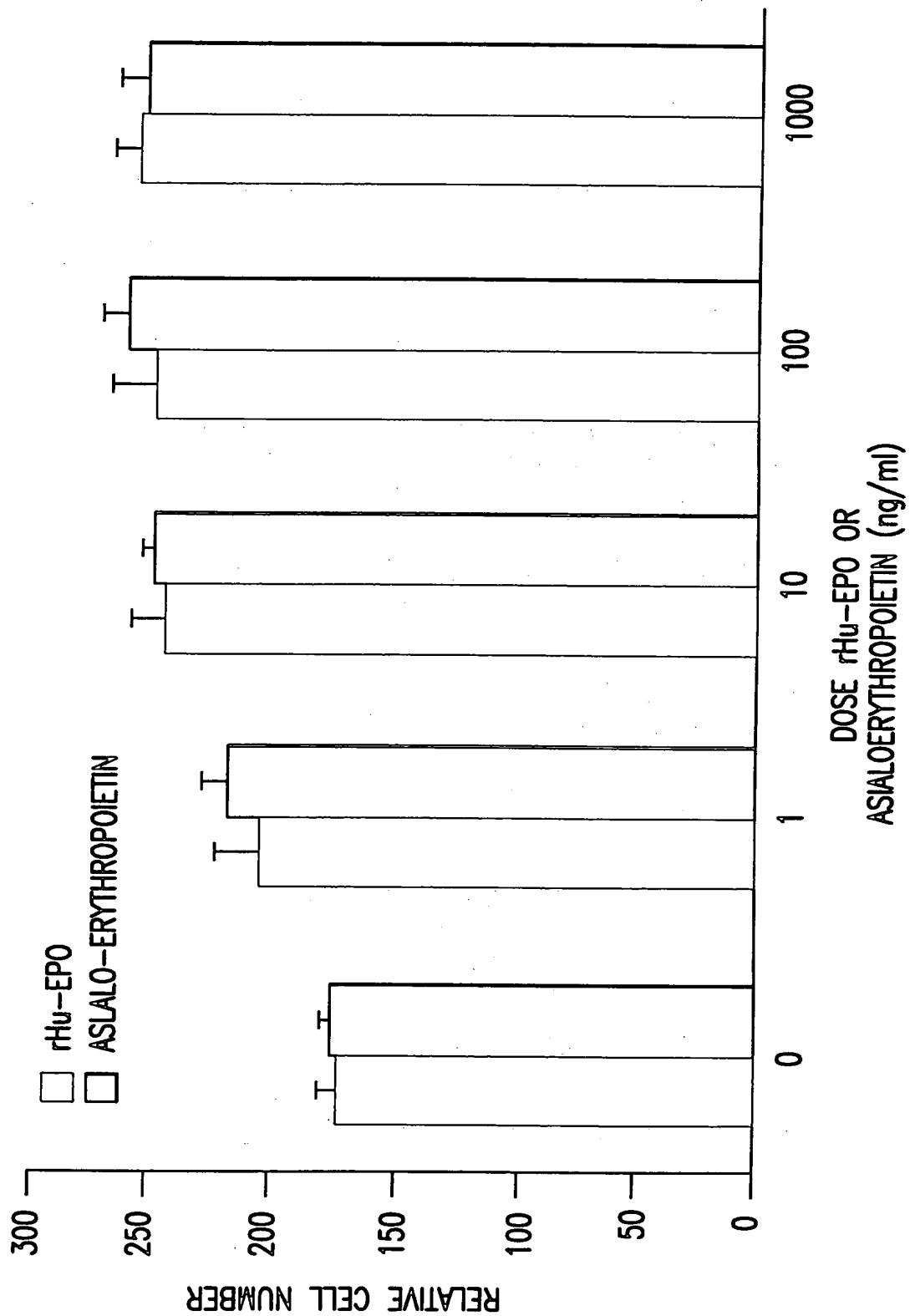


FIG. 8

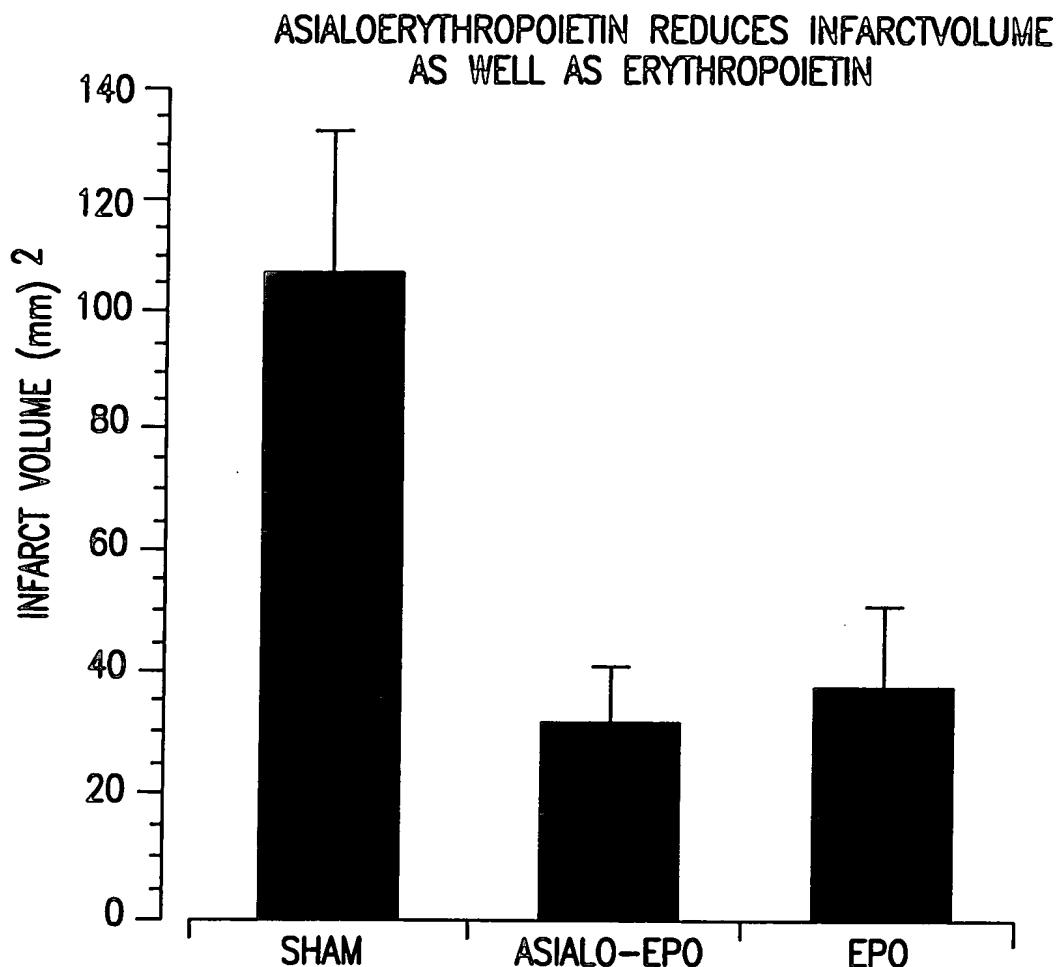


FIG. 9

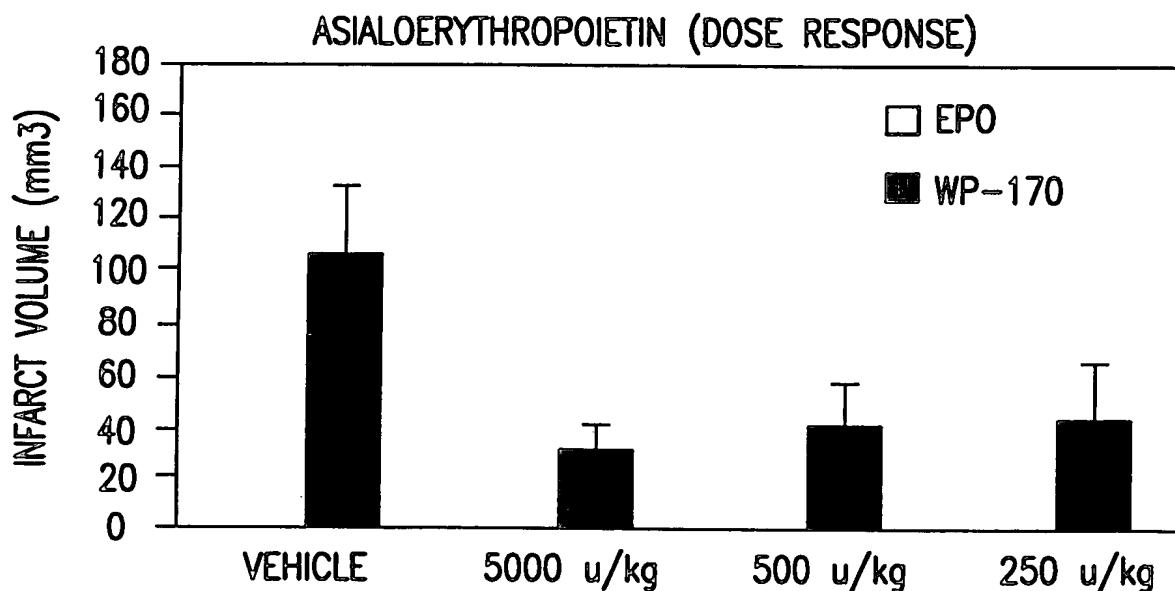


FIG. 10

n FOR EACH GROUP IS
GREATER THAN OR EQUAL TO 4

Title: Recombinant tissue protective cytokines and
encoding nucleic acids thereof for protection, restoration,
and enhancement of responsive cells, tissues, and organs

PROTECTION OF P19 CELLS FROM SERUM
DEPRIVATION BY IODO-EPO

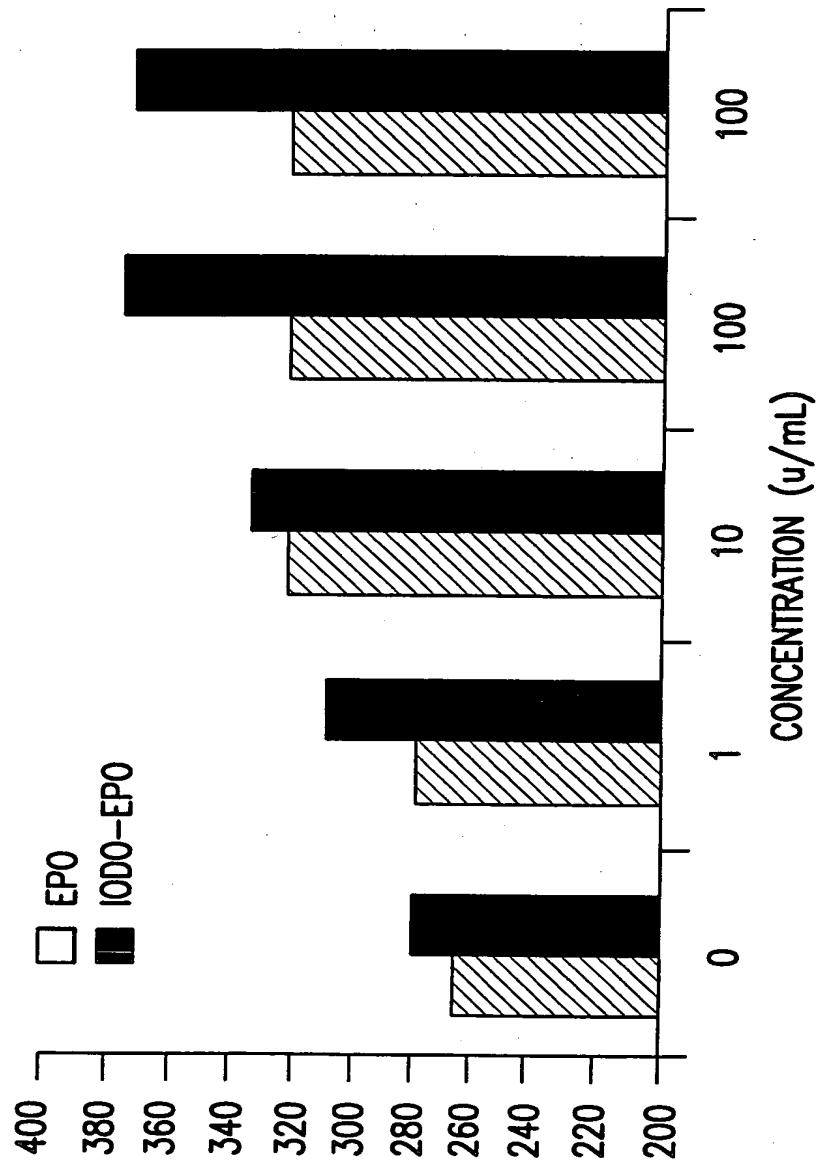


FIG. 11

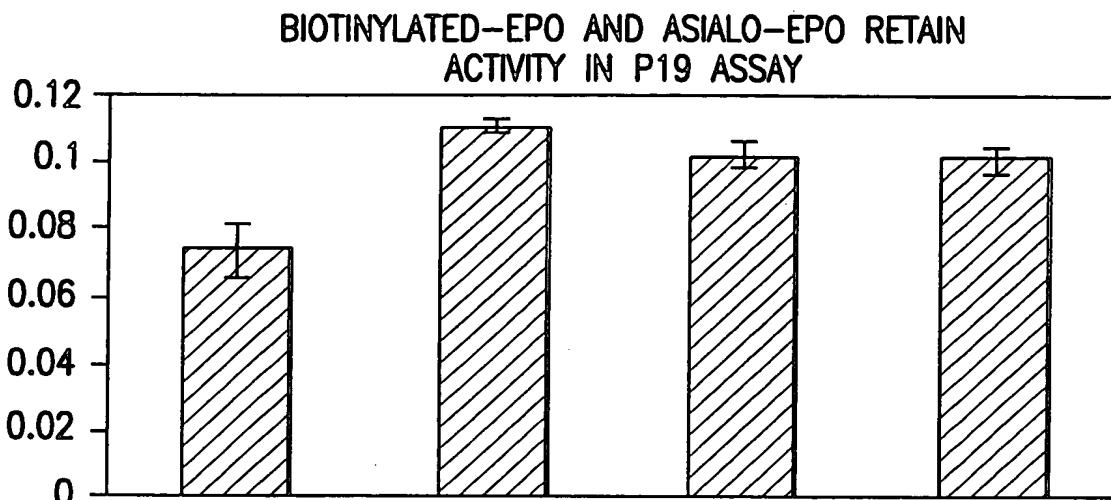


FIG. 12

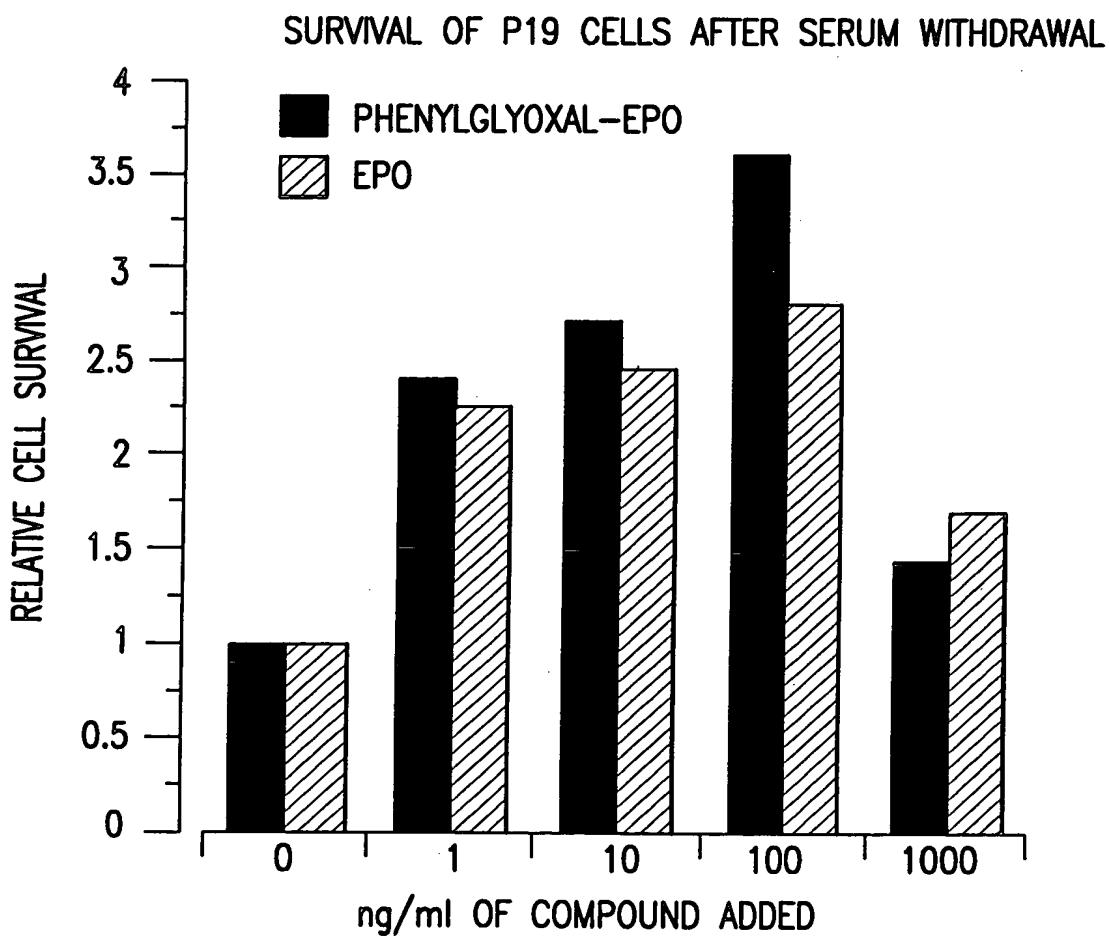


FIG. 13

Title: Recombinant tissue protective cytokines and
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and enhancement of responsive cells, tissues, and organs

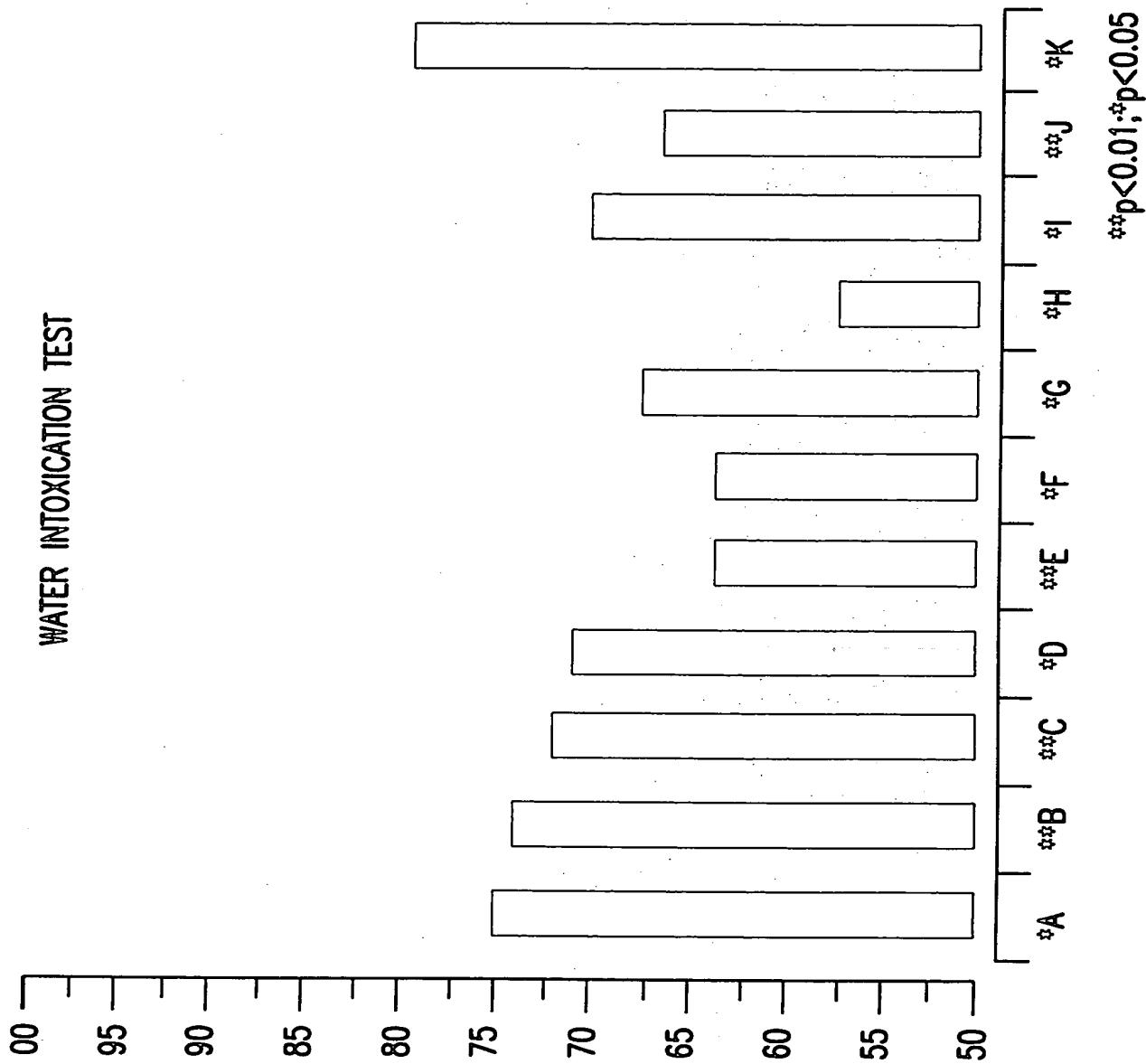


FIG. 14

ERYTHROPOIETIN IMPROVES CARDIAC FUNCTION IN
A HEART ISOLATED FOR TRANSPLANTATION

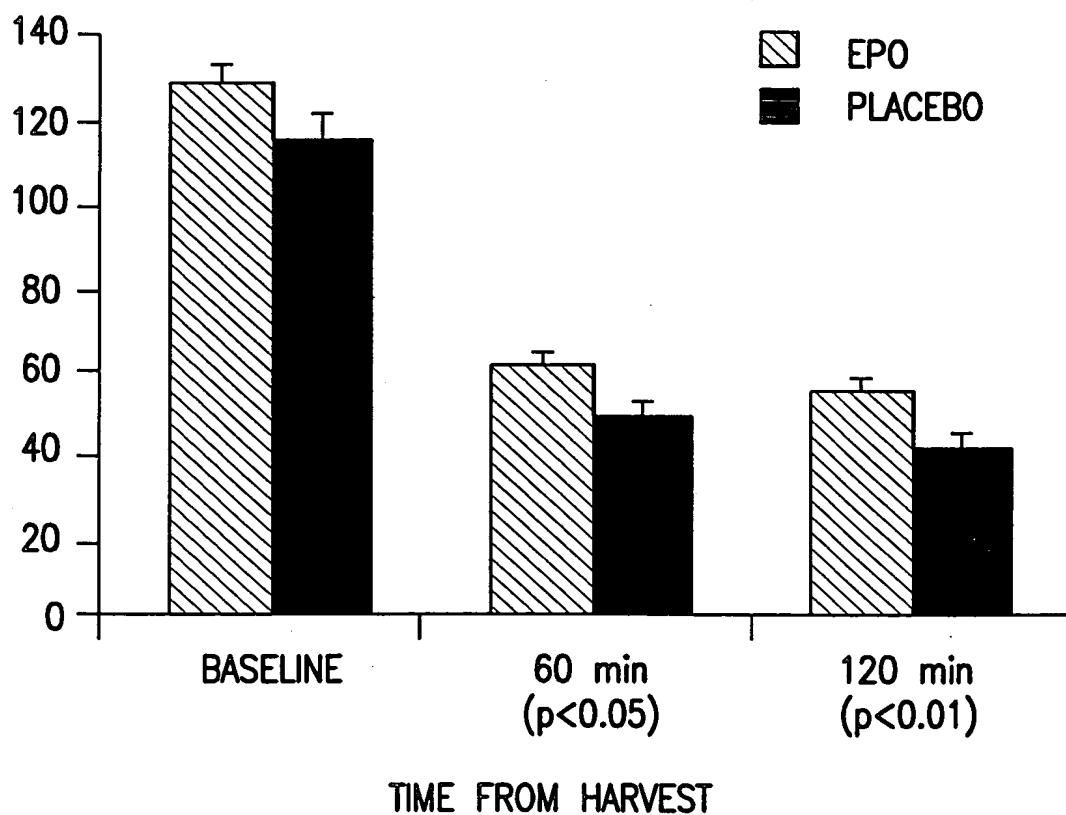


FIG. 15

Title: Recombinant tissue protective cytokines and
encoding nucleic acids thereof for protection, restoration,
and enhancement of responsive cells, tissues, and organs

RAT HEART 7 DAYS AFTER 30 MINUTES OF ISCHEMIA

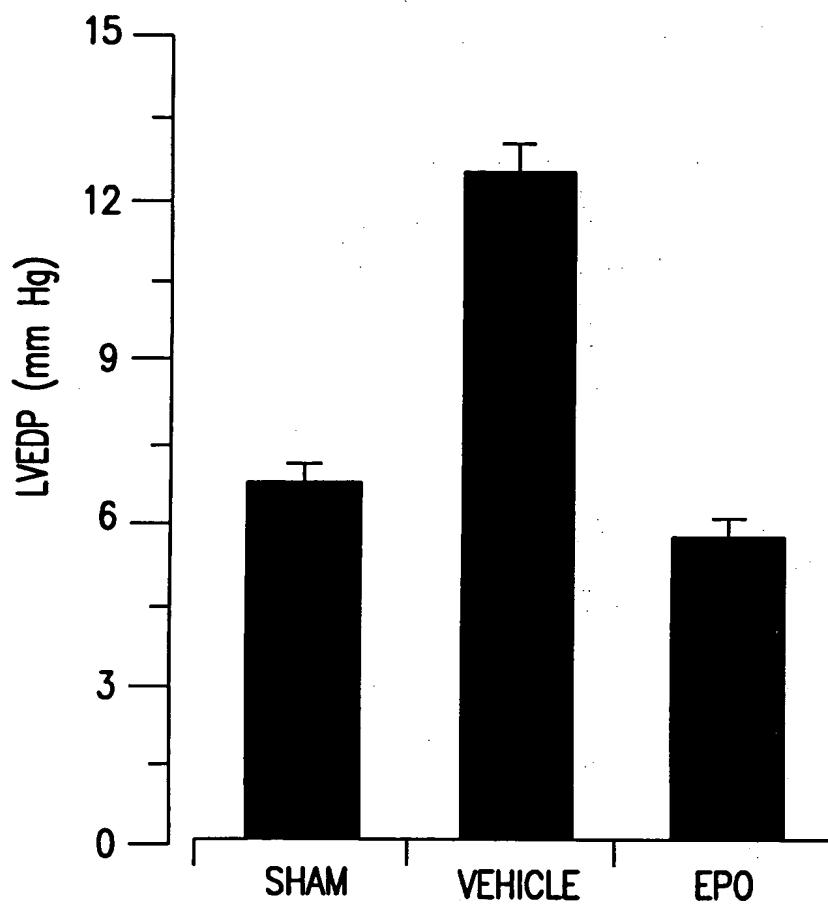


FIG. 16

Title: Recombinant tissue protective cytokines and
encoding nucleic acids thereof for protection, restoration,
and enhancement of responsive cells, tissues, and organs

ELECTRORETINOGRAMS
FROM RATS SUBJECTED
TO 60 MINUTES OF
ISCHEMIA

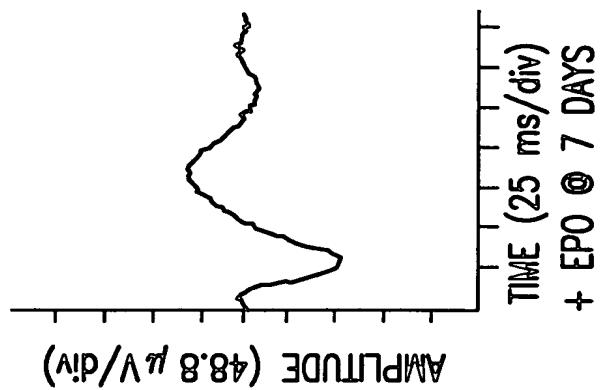


FIG. 17D

ELECTRORETINOGRAMS
FROM RATS SUBJECTED
TO 60 MINUTES OF
ISCHEMIA

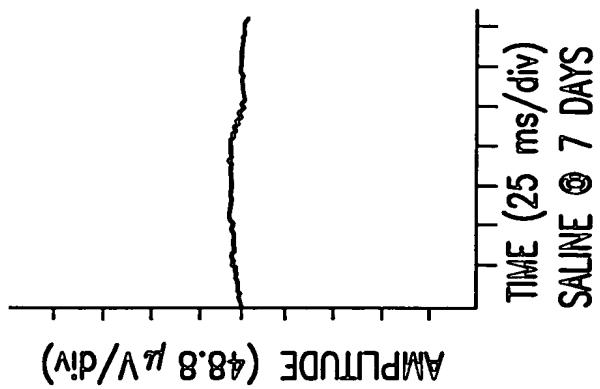


FIG. 17C

ELECTRORETINOGRAMS
FROM RATS SUBJECTED
TO 60 MINUTES OF
ISCHEMIA

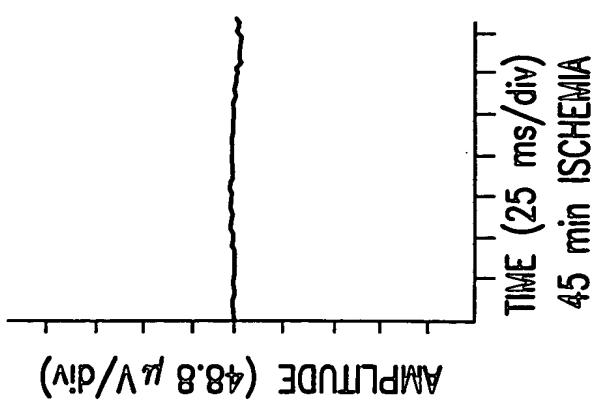


FIG. 17B

ELECTRORETINOGRAMS
FROM RATS SUBJECTED
TO 60 MINUTES OF
ISCHEMIA

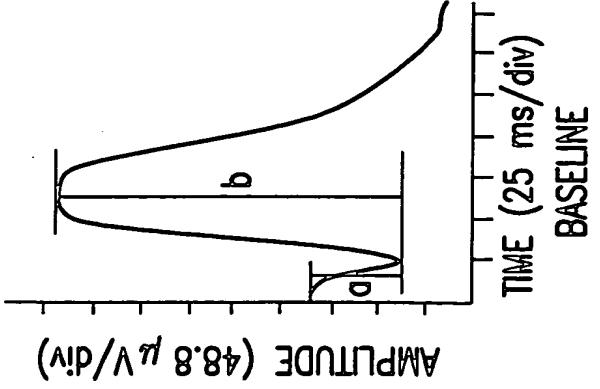


FIG. 17A

Title: Recombinant tissue protective cytokines and
encoding nucleic acids thereof for protection, restoration,
and enhancement of responsive cells, tissues, and organs

RETINOGRAM AMPLITUDE AFTER 60 min. ISCHEMIA

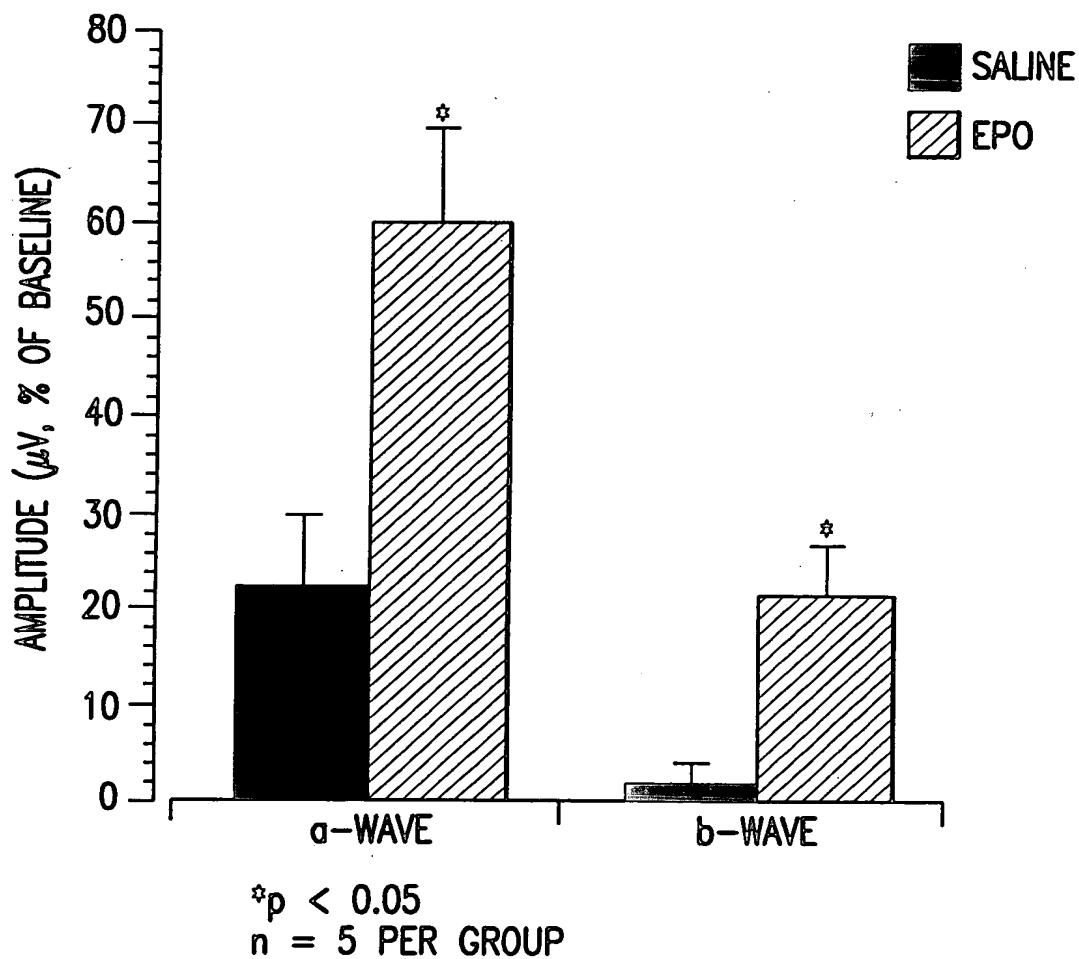


FIG. 18

Title: Recombinant tissue protective cytokines and
encoding nucleic acids thereof for protection, restoration,
and enhancement of responsive cells, tissues, and organs

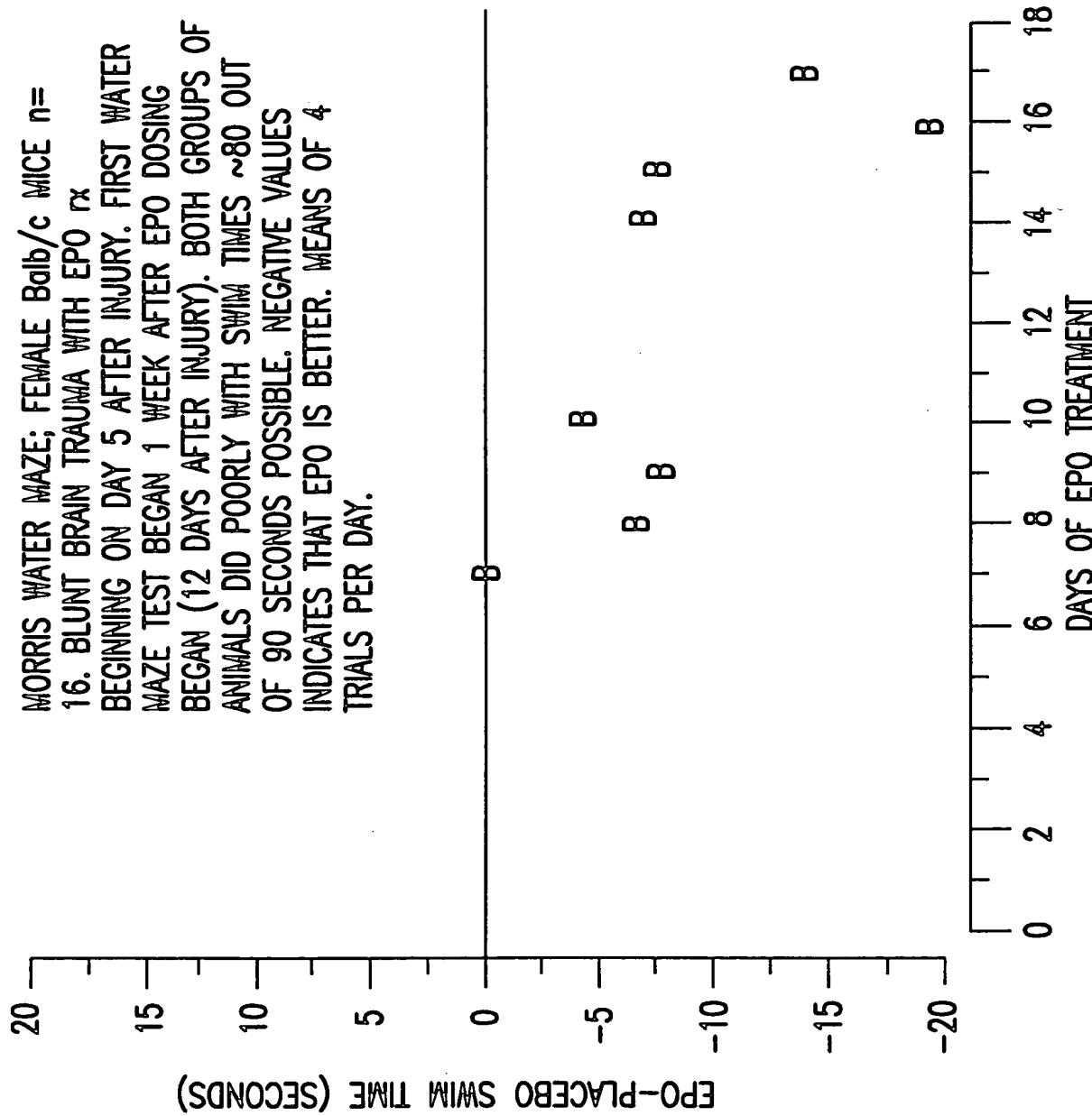


FIG. 19

Title: Recombinant tissue protective cytokines and
encoding nucleic acids thereof for protection, restoration,
and enhancement of responsive cells, tissues, and organs

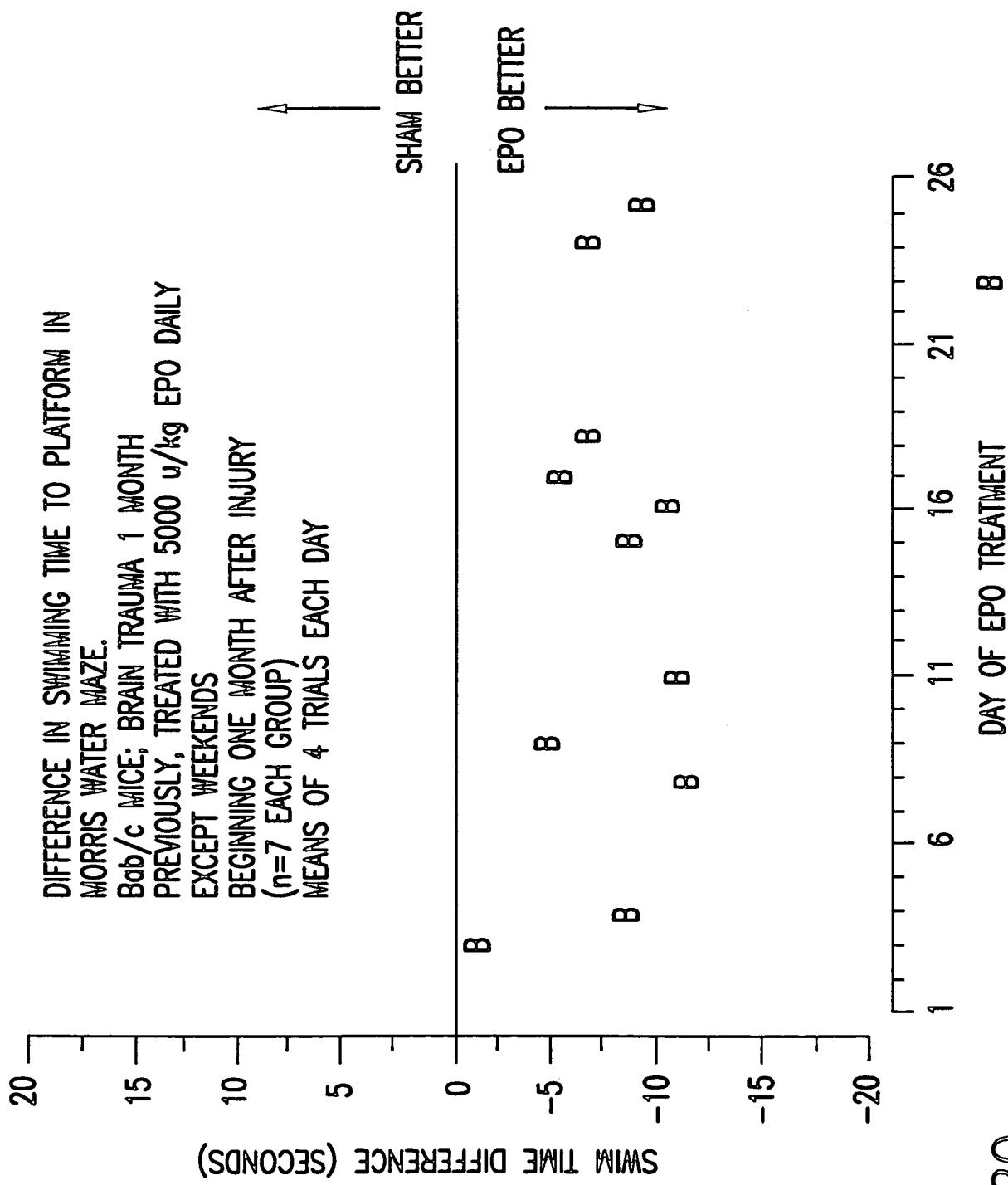


FIG. 20

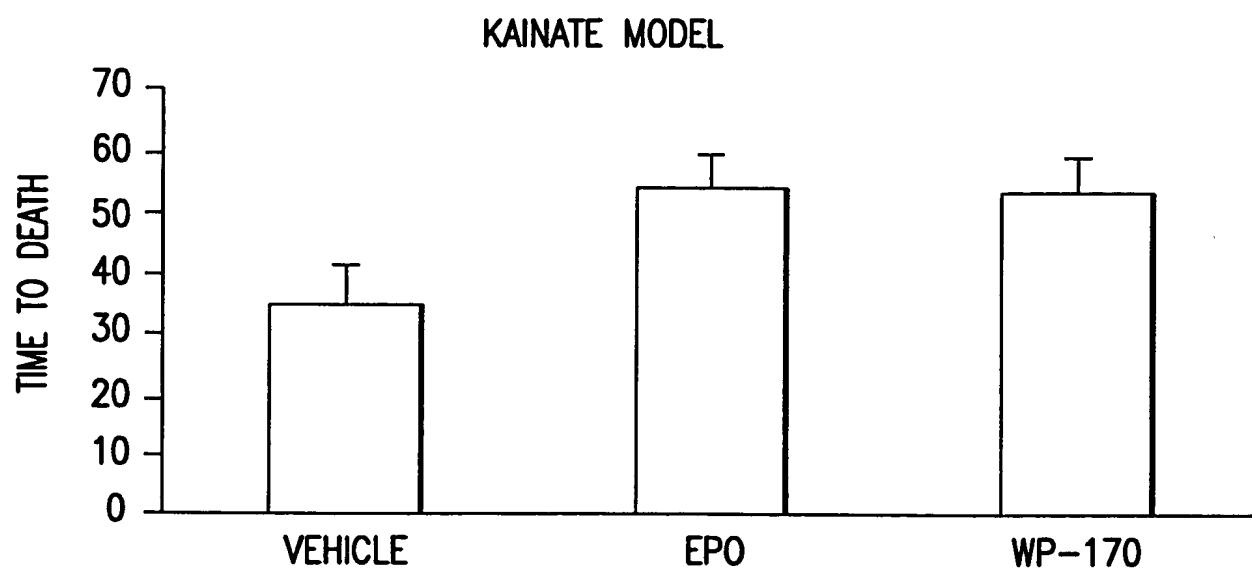


FIG.21

Title: Recombinant tissue protective cytokines and
encoding nucleic acids thereof for protection, restoration,
and enhancement of responsive cells, tissues, and organs

RAT SPINAL CORD COMPRESSION MODEL

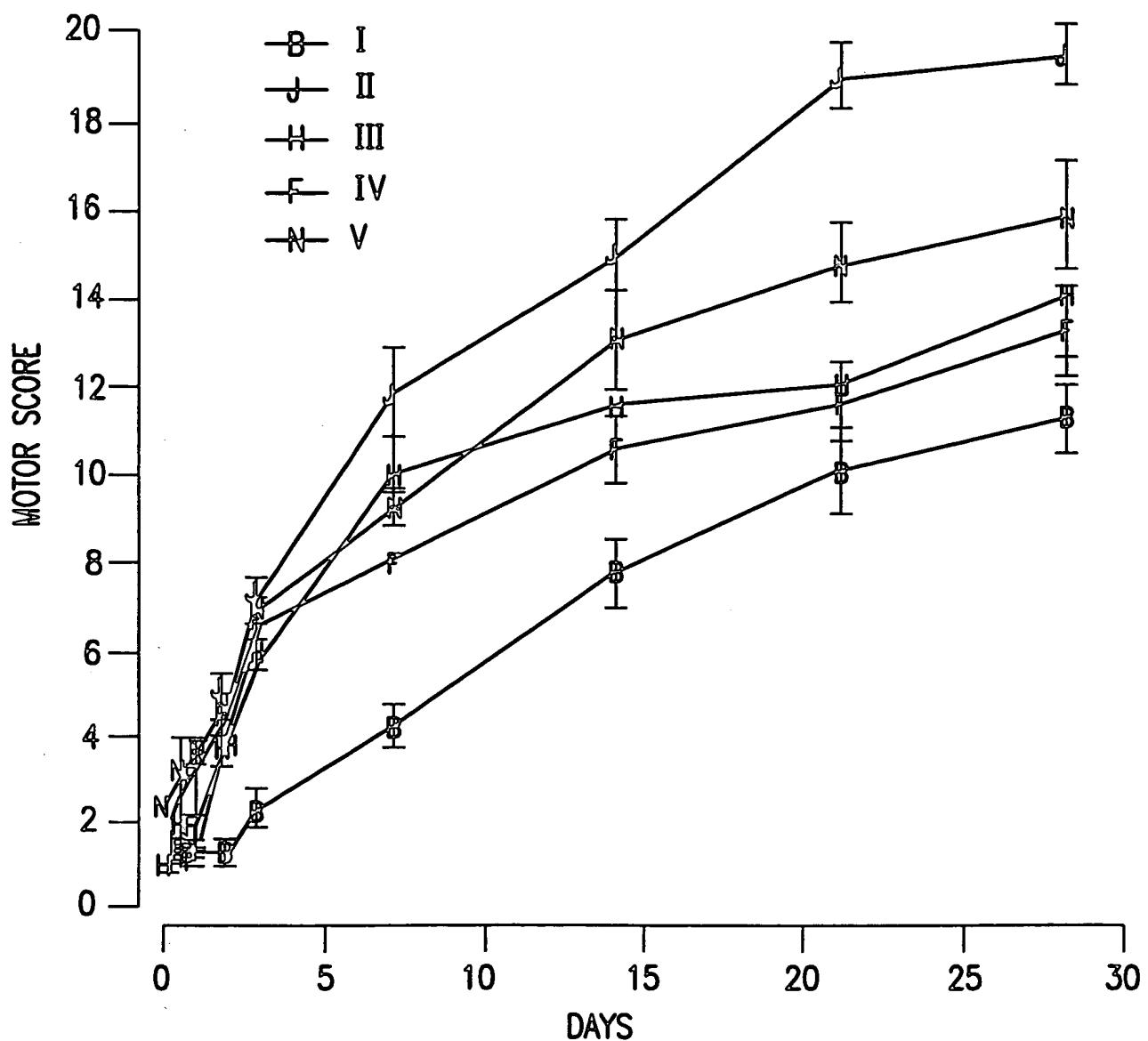


FIG.22

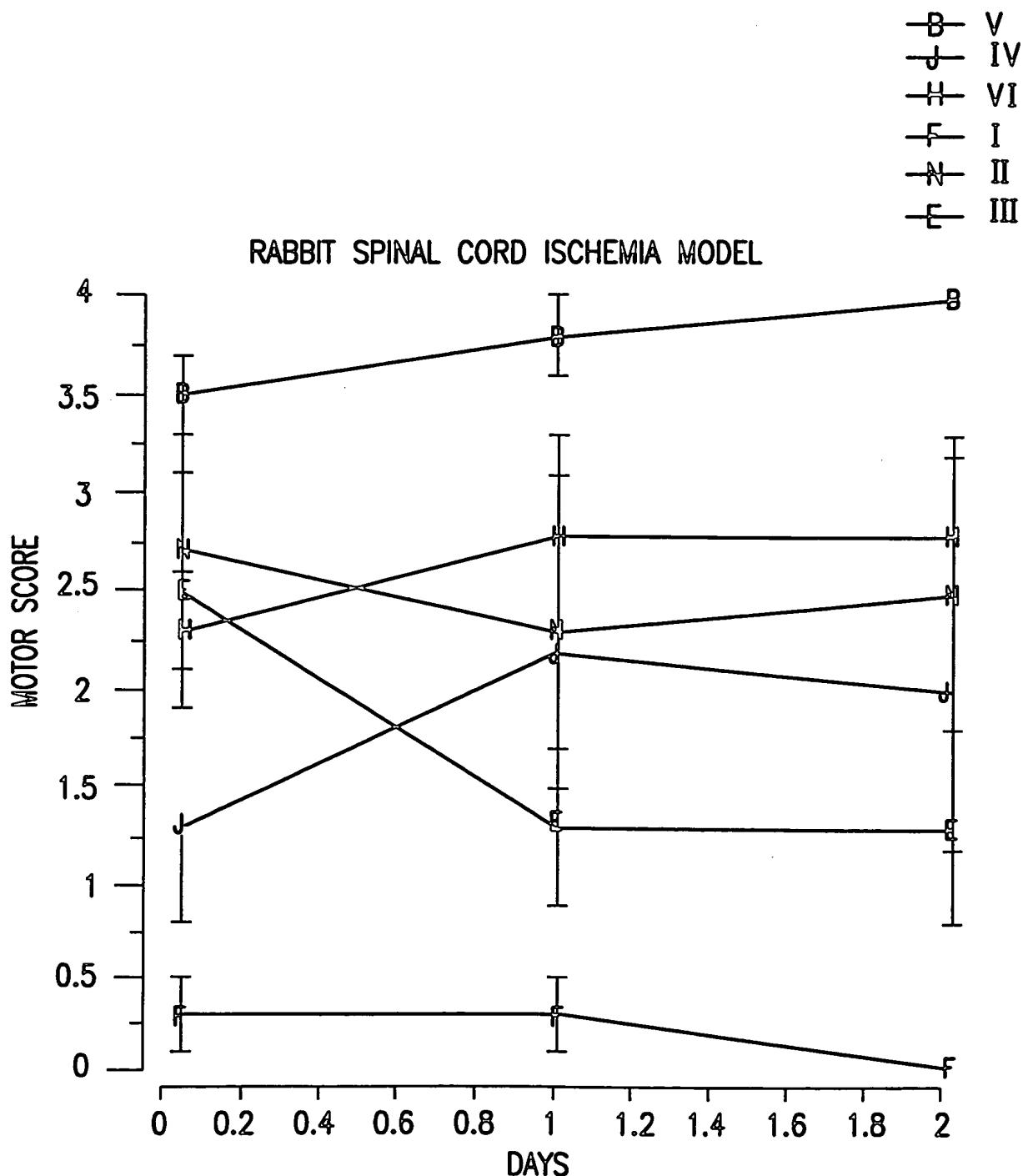


FIG. 23

Docket No.: 10165-022-999

Serial No.: 10/612,665

Inventor(s): Nielsen et al.

Title: Recombinant tissue protective cytokines and
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and enhancement of responsive cells, tissues, and organs



FIG.24A



FIG.24B



FIG.24C

Docket No.: 10165-022-999

Serial No.: 10/612,665

Inventor(s): Nielsen et al.

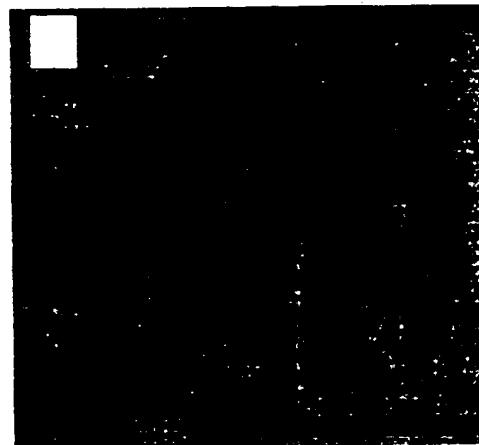
Title: Recombinant tissue protective cytokines and
encoding nucleic acids thereof for protection, restoration,
and enhancement of responsive cells, tissues, and organs



FIG.25A



FIG.25B



Docket No.: 10165-022-999

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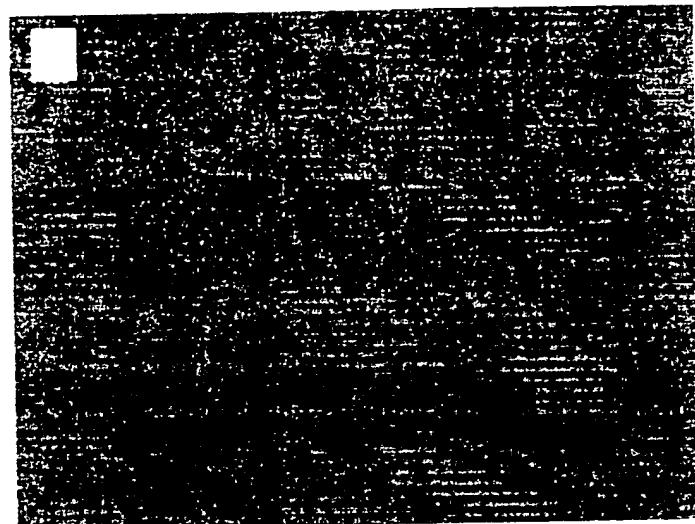


FIG.26A



FIG.26B

Docket No.: 10165-022-999

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Inventor(s): Nielsen et al.

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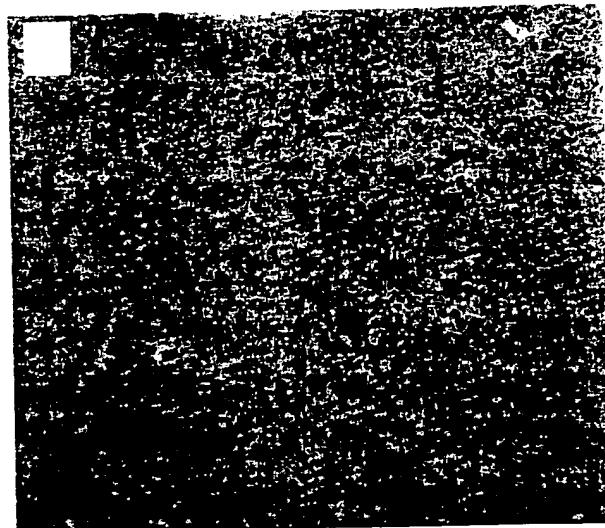


FIG.27A

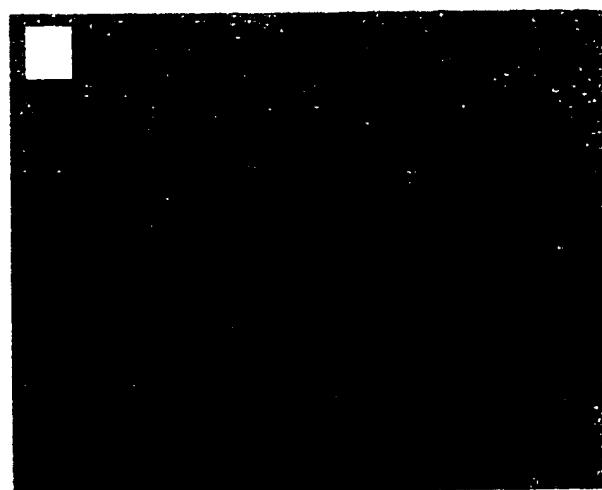


FIG.27B

Title: Recombinant tissue protective cytokines and
encoding nucleic acids thereof for protection, restoration,
and enhancement of responsive cells, tissues, and organs

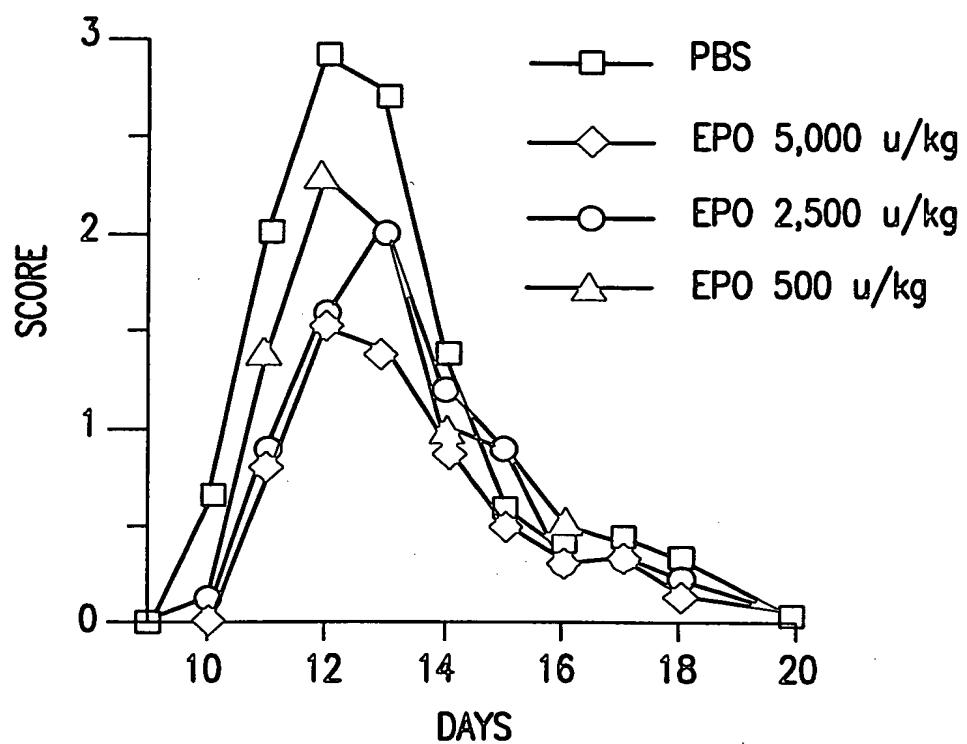


FIG. 28

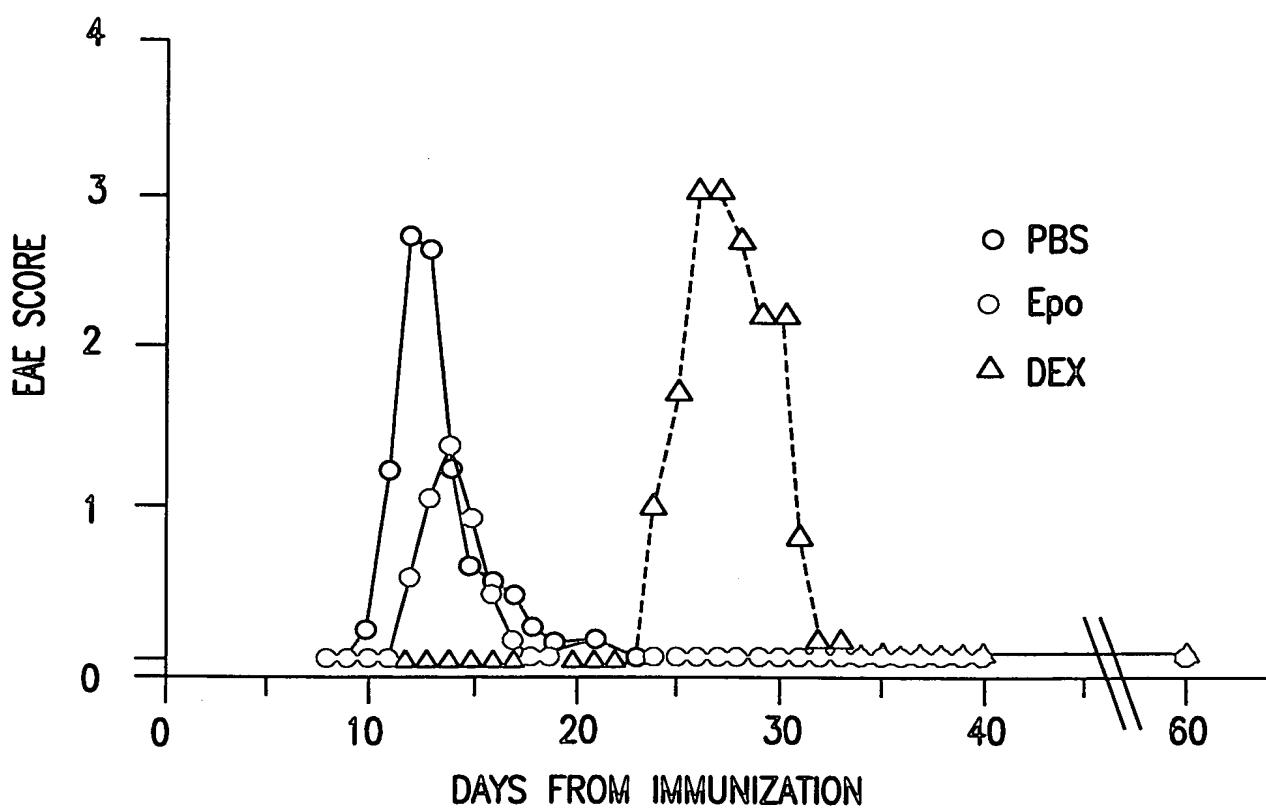


FIG. 29

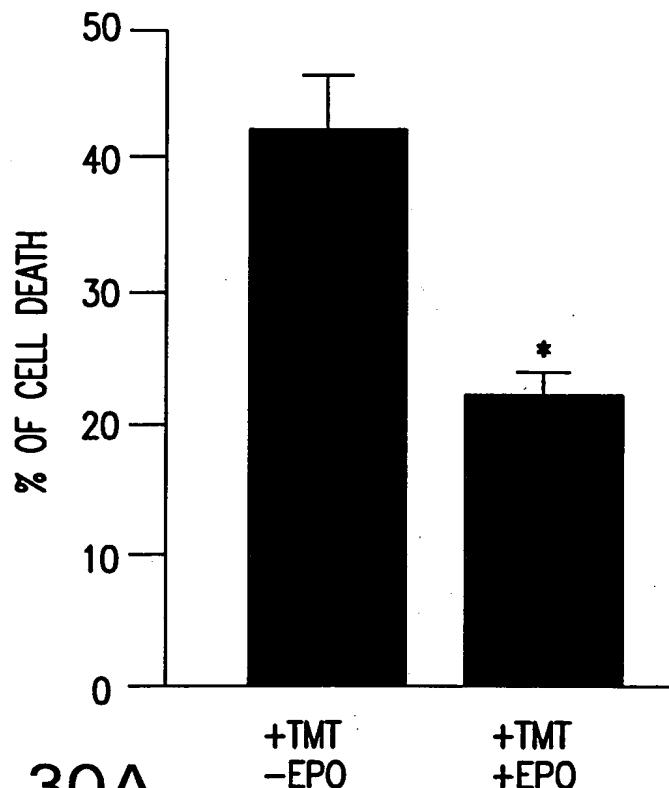


FIG. 30A

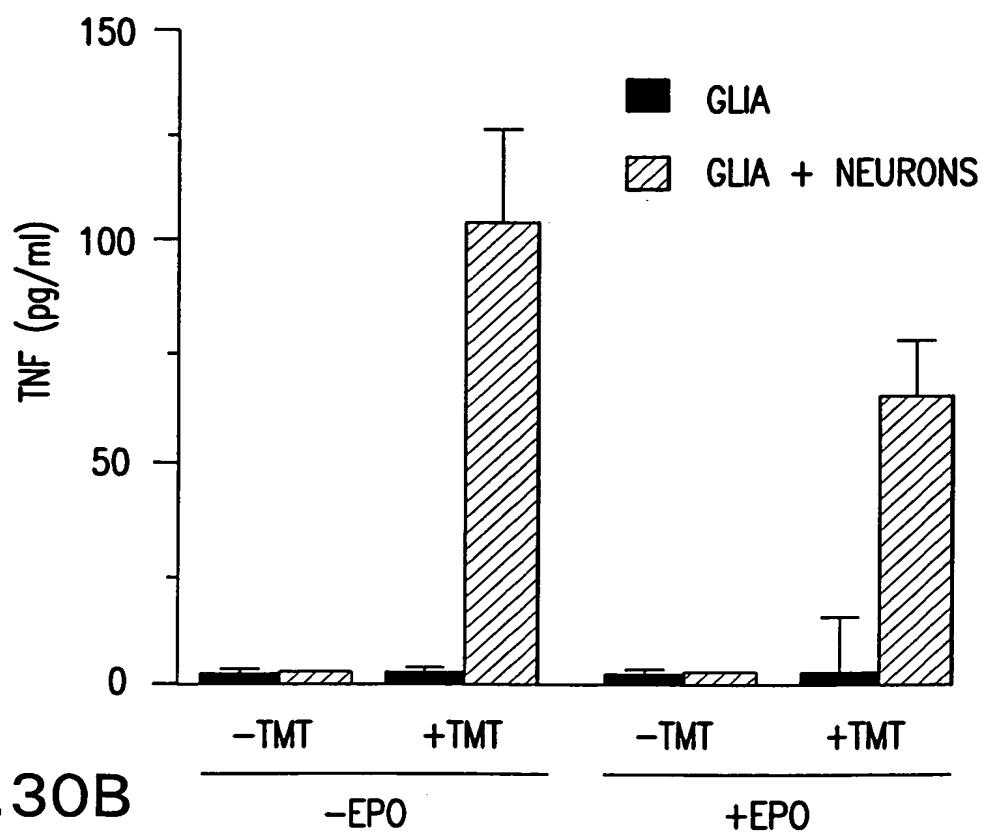


FIG. 30B

NMDA INDUCED CELL DEATH IN
PRIMARY HIPPOCAMPAL NEURONS
COMPOUNDS AT 5nM

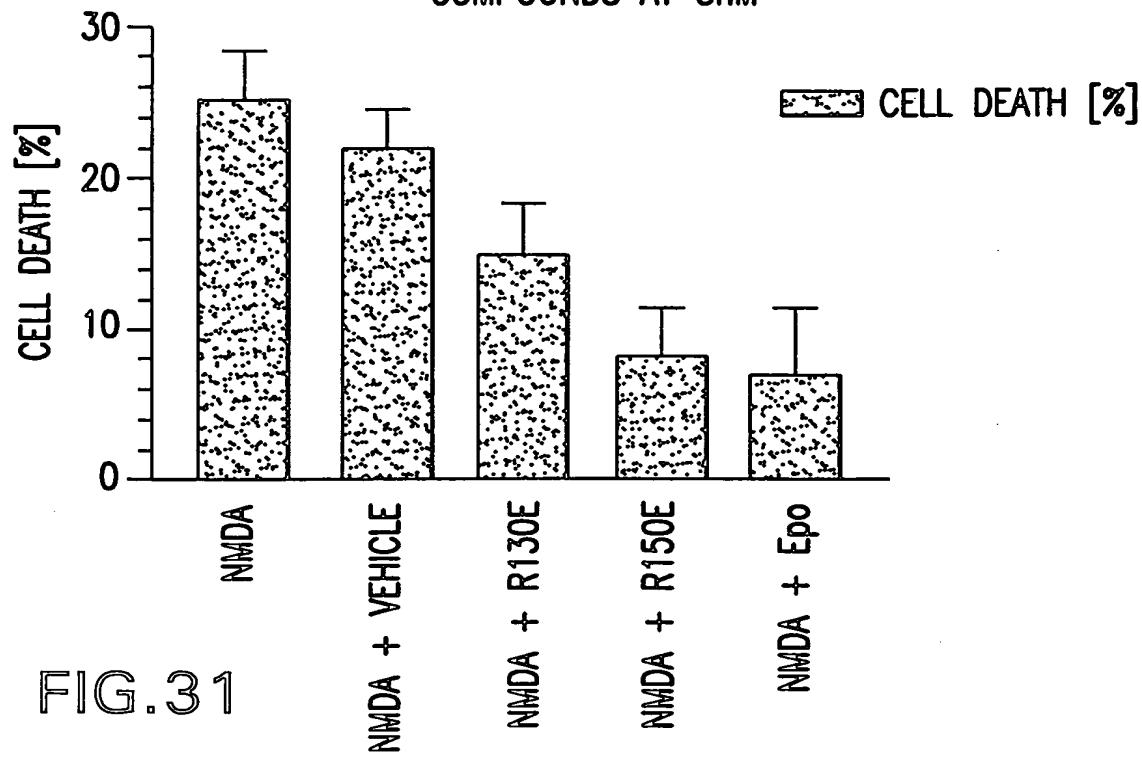


FIG. 31

NEURONAL PROTECTION FROM
SERUM WITHDRAWAL IN P19 CELLS

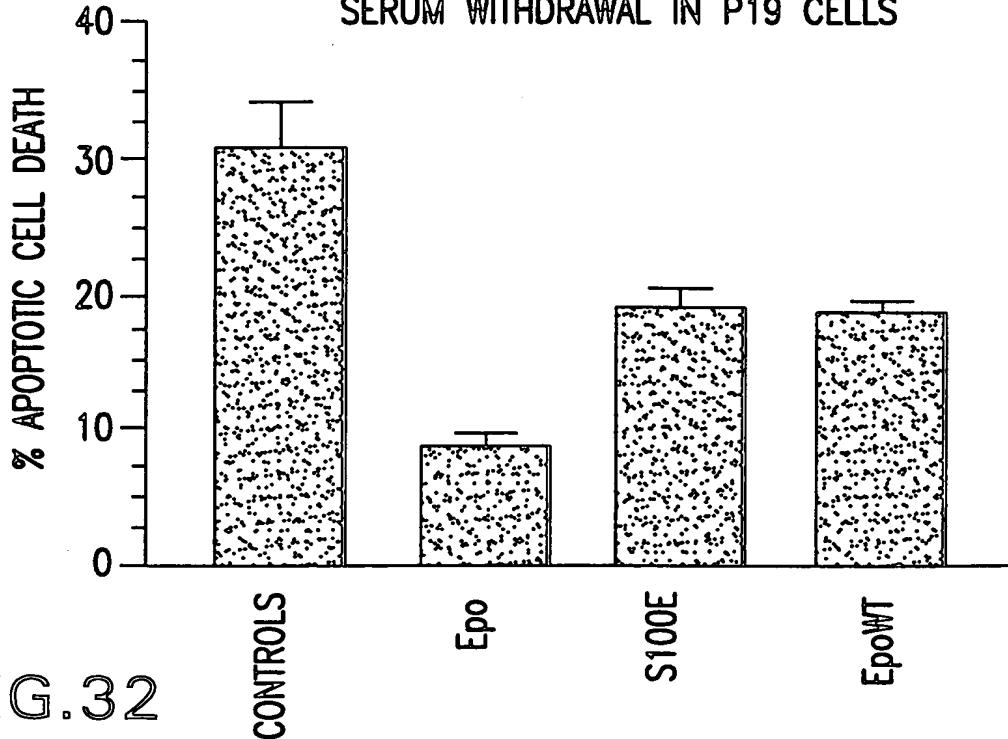


FIG. 32

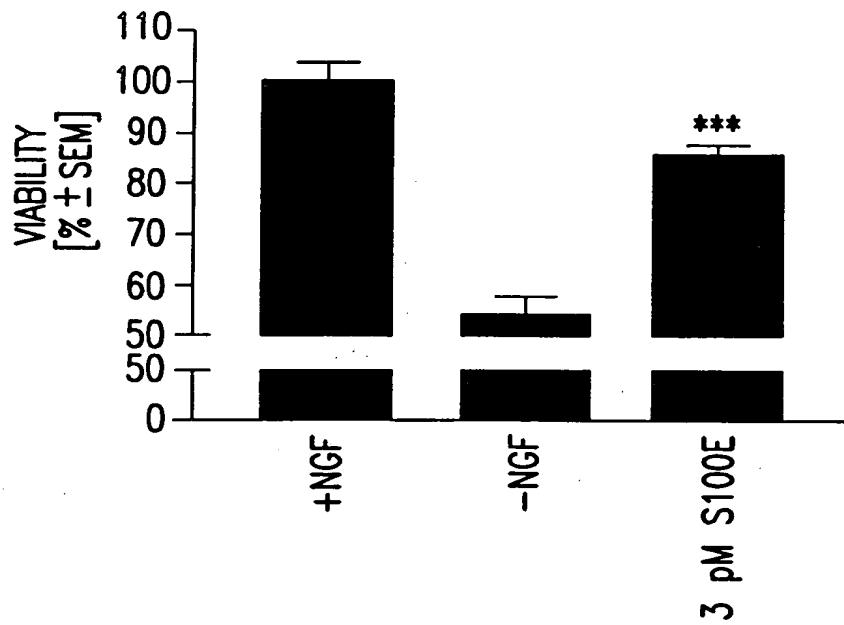


FIG. 33A

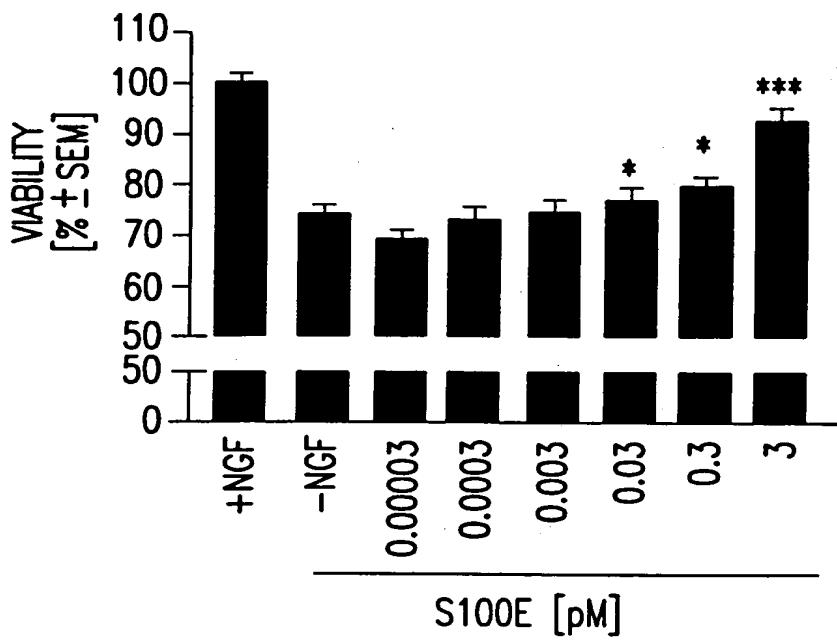


FIG. 33B

Title: Recombinant tissue protective cytokines and
encoding nucleic acids thereof for protection, restoration,
and enhancement of responsive cells, tissues, and organs

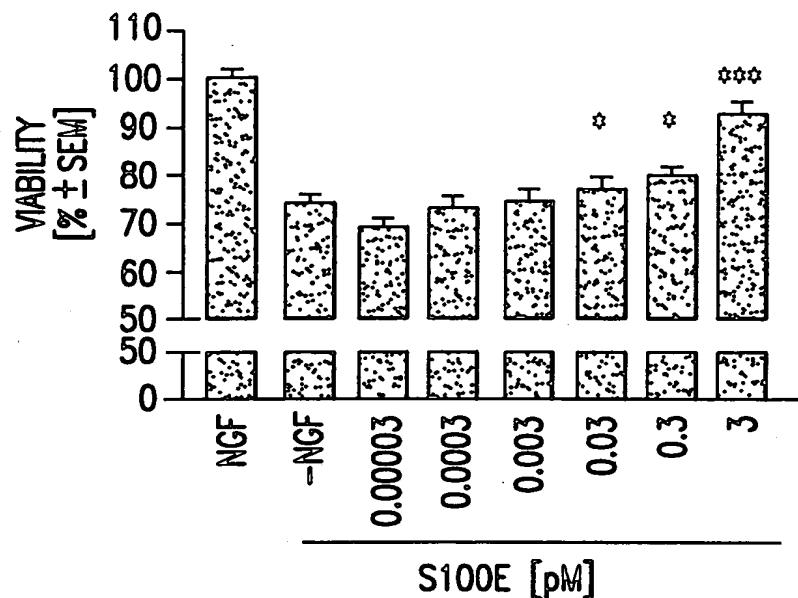


FIG. 34A

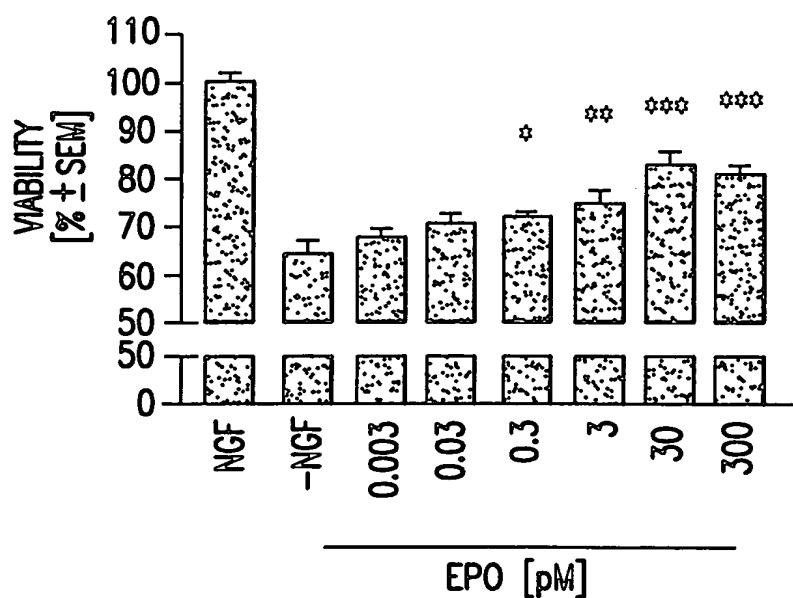


FIG. 34B

Title: Recombinant tissue protective cytokines and
encoding nucleic acids thereof for protection, restoration,
and enhancement of responsive cells, tissues, and organs

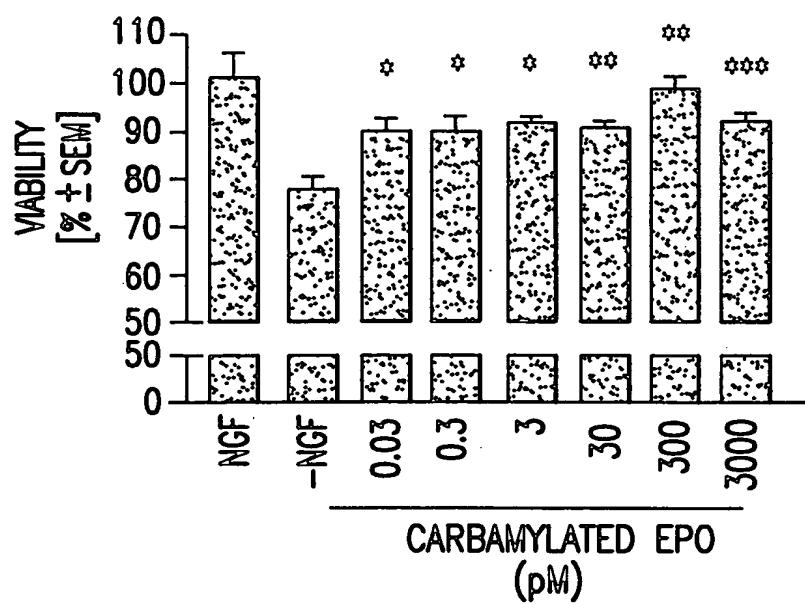
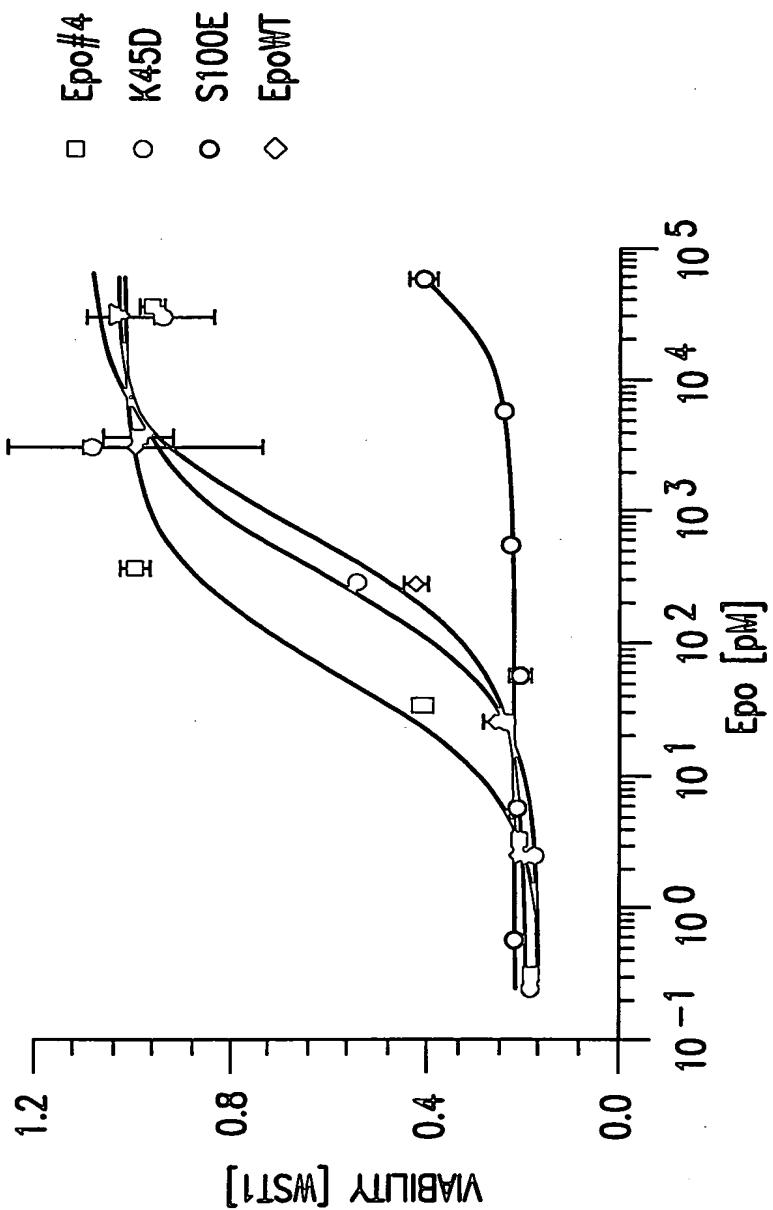


FIG. 34C

Title: Recombinant tissue protective cytokines and
encoding nucleic acids thereof for protection, restoration,
and enhancement of responsive cells, tissues, and organs

UT7 BIOASSAY
Epo MUTANTS



	Epo#4	K45D	S100E	EpoWT
EC50	58.13	294.0	5.3840e+006	608.0

FIG. 35

Title: Recombinant tissue protective cytokines and
encoding nucleic acids thereof for protection, restoration,
and enhancement of responsive cells, tissues, and organs

UT7 BIOASSAY
Epo MUTANTS

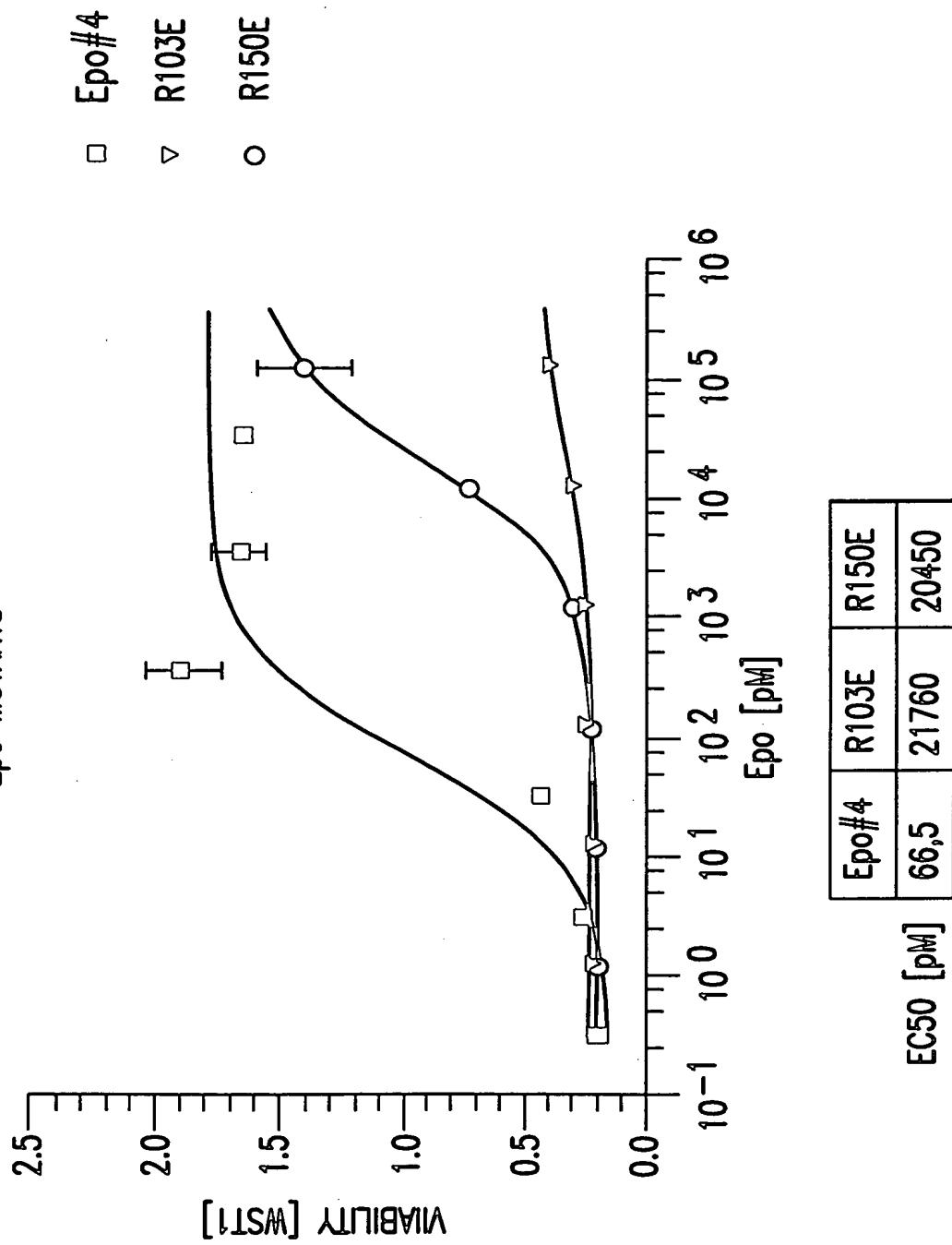


FIG. 36

Title: Recombinant tissue protective cytokines and
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and enhancement of responsive cells, tissues, and organs

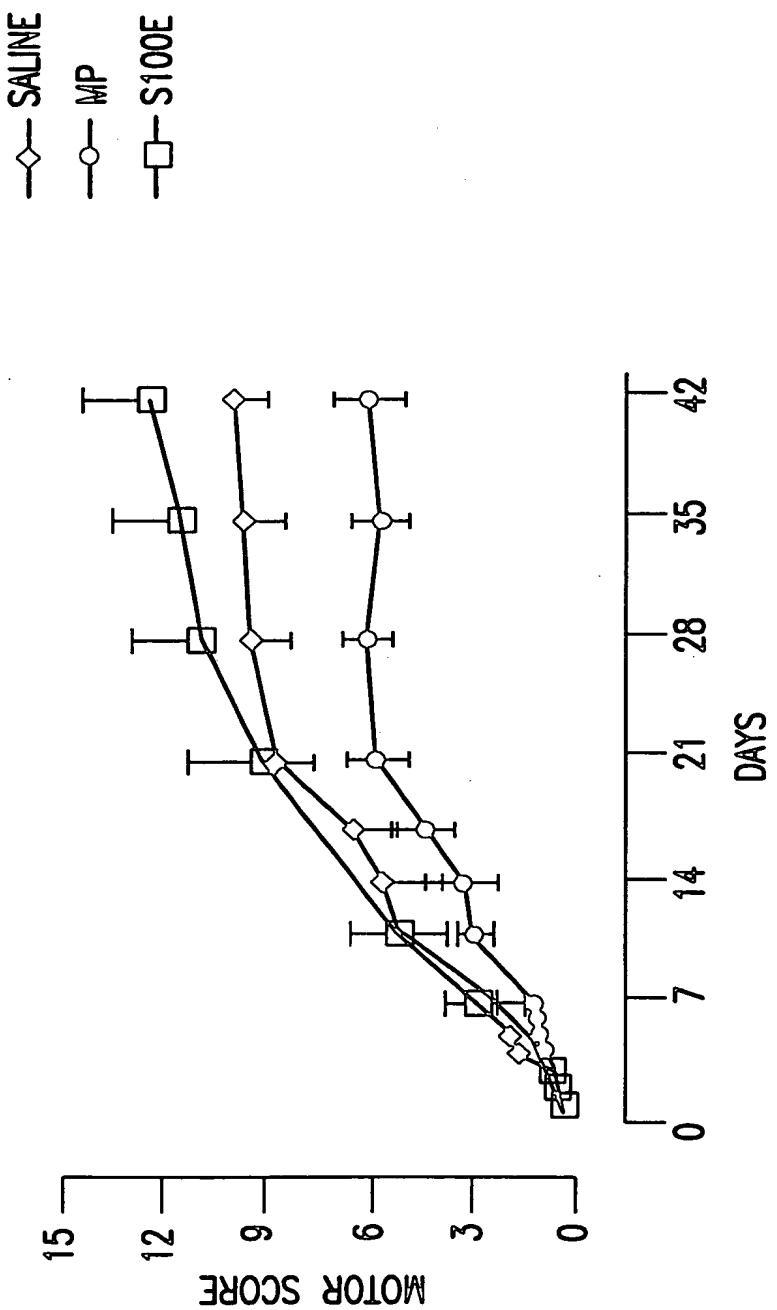


FIG. 37

Title: Recombinant tissue protective cytokines and
encoding nucleic acids thereof for protection, restoration,
and enhancement of responsive cells, tissues, and organs

